K071429

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SYBRON DENTAL SPECIALTIES

SEP 10 2007

Section III - 510(k) Summary of Safety and Effectiveness

Submitter:

Sybron Dental Specialties, Inc.
1717 West Collins Avenue
Orange, California 92867
(714) 516-7484 - Phone
(714) 516-7488 - Facsimile
Colleen Boswell - Contact Person

Date Summary Prepared: May 2007

Device Name:

- Trade Name – *Ti2200 Transillumination Cable*
- Common Name – Fiber optic transilluminator
- Classification Name – Laser fluorescence caries detection device, per 21 CFR § 872.1745

Devices for Which Substantial Equivalence is Claimed:

- Addent Inc., *Microlux Transilluminator*

Device Description:
The *Ti2200 Transillumination Cable* is a fiber optic transilluminator connected directly to a light source. The *Ti2200 Transillumination Cable* uses a 2.1mm fiber-optic bundle with a 45 degree stainless steel end-tip. The end-tip, when placed on the tooth surface (and when other sources of light are minimized), creates an illuminated tooth structure to help locate decay, calculus, fracture lines, endodontic orifices, cracks and fissures. These clinical entities reduce the ability to transmit light and therefore show up as dark areas in an otherwise bright structure thus aiding in diagnosis.

Intended Use of the Device:

The intended use of *Ti2200 Transillumination Cable* is to locate decay, calculus, fracture lines, endodontic orifices, cracks and fissures underneath the tooth surface.

Substantial Equivalence:

Ti2200 Transillumination Cable is substantially equivalent to other legally marketed devices in the United States. *Ti2200 Transillumination Cable* functions in a manner similar to and is intended for the same use as the *Microlux Transilluminator* designed by Addent Inc.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

SEP 10 2007

Kerr Corporation
C/O Ms. Colleen Boswell
Vice President, Regulatory Affairs
Sybron Dental Specialties, Incorporated
1717 West Collins Avenue
Orange, California 92867

Re: K071429
Trade/Device Name: Ti2200 Transillumination Cable
Regulation Number: 21 CFR 872.1745
Regulation Name: Laser Fluorescence Caries Detection Device.
Regulatory Class: II
Product Code: NTK
Dated: August 28, 2007
Received: September 4, 2007

Dear Ms. Boswell:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (240) 276-0115. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Chiu Lin, Ph.D.
Director
Division of Anesthesiology, General Hospital,
Infection Control and Dental Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

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K071429

Indications for Use

510(k) Number (if known):

Device Name: *Ti2200 Transillumination Cable*

Indications for Use:

The *Ti2200 Transillumination Cable* is a diagnostic aid used to locate decay, calculus, fracture lines, endodontic orifices, cracks and fissures underneath the tooth surface utilizing a fiber optic cable and handle attached to a light source.

Prescription Use ✓ AND/OR Over-The-Counter Use _____
(Part 21 CFR 801 Subpart D) (21 CFR 807 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE - CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

(Division Sign-Off)
Division of Anesthesiology, General Hospital
Infection Control, Dental Devices

510(k) Number: K071429